Chapter 13
PWC System Log Messages

This chapter describes messages generated by the Process Watch Controller process (pwc), which monitors J20 gateway GPRS support node control (GGSN-C) processes for failures.

PWC_EXIT

System Log Message	PWC_EXIT: Process *pwc-process-id* exiting with status *pwc-exit-status*
Description	The Process Watch Controller process (pwc) exited with the indicated exit status.
Type	Event: This message reports an event, not an error
Severity	info

PWC_HOLD_RELEASE

System Log Message	PWC_HOLD_RELEASE: Process *pwc-process-id* released child *child-process-id* from hold-down state
Description	The Process Watch Controller process (pwc) released the indicated child process from the hold-down state.
Type	Event: This message reports an event, not an error
Severity	notice

PWC_INVALID_RUNS_ARGUMENT

System Log Message	PWC_INVALID_RUNS_ARGUMENT: *value*: allowed process runs must be $>= 1$, not *argument*
Description	The number of allowed runs specified on the command line for the Process Watch Controller process (pwc) was invalid.
Type	Error: An error occurred
Severity	error

PWC_INVALID_TIMEOUT_ARGUMENT

System Log Message	PWC_INVALID_TIMEOUT_ARGUMENT: *value*: invalid 0 or negative timeout for *argument*
Description	The value specified for the timeout argument on the command line for the Process Watch Controller process (pwc) was too short or a negative number.
Type	Error: An error occurred
Severity	error

PWC_KILLED_BY_SIGNAL

System Log Message	PWC_KILLED_BY_SIGNAL: pwc process *pwc-process-id* received terminating signal
Description	The Process Watch Controller process (pwc) process exited because it received a terminating signal.
Type	Event: This message reports an event, not an error
Severity	notice

PWC_KILL_EVENT

System Log Message	PWC_KILL_EVENT: pwc is sending signal *signal-name* to child *child-pid*
Description	The Process Watch Controller process (pwc) sent a termination signal to the child process it was created to monitor.
Type	Event: This message reports an event, not an error
Severity	info

PWC_KILL_FAILED

System Log Message	PWC_KILL_FAILED: Unable to kill process *child-pid*: *error* (*error-number*)
Description	The Process Watch Controller process (pwc) could not terminate the child process it was created to monitor.
Type	Error: An error occurred
Severity	error

PWC_KQUEUE_ERROR

System Log Message PWC_KQUEUE_ERROR:
kevent failed: *error-message*

Description The Process Watch Controller process (pwc) could not receive an event from the kernel queue.

Type Error: An error occurred

Severity emergency

PWC_KQUEUE_INIT

System Log Message PWC_KQUEUE_INIT:
Unable to create kqueue: *error-message*

Description The Process Watch Controller process (pwc) could not initialize the kernel queue.

Type Error: An error occurred

Severity emergency

PWC_KQUEUE_REGISTER_FILTER

System Log Message PWC_KQUEUE_REGISTER_FILTER:
Failed to register kqueue filter: *filter-name* for *purpose*: *error-message*

Description The Process Watch Controller process (pwc) failed to register a kernel event queue filter event.

Type Error: An error occurred

Severity emergency

PWC_LOCKFILE_BAD_FORMAT

System Log Message PWC_LOCKFILE_BAD_FORMAT:
PID lock file has bad format: *lock-file-path*

Description The Process Watch Controller process (pwc) could not parse the indicated locked PID file because its contents were invalid.

Type Error: An error occurred

Severity error

PWC_LOCKFILE_ERROR

System Log Message	PWC_LOCKFILE_ERROR: PID lock file had error: *lock-file-path*: *error* (*error-number*)
Description	The Process Watch Controller process (pwc) could not read the indicated locked PID file for a child process.
Type	Error: An error occurred
Severity	error

PWC_LOCKFILE_MISSING

System Log Message	PWC_LOCKFILE_MISSING: PID lock file not found: *lock-file-path*
Description	The Process Watch Controller process (pwc) could not find the indicated locked PID file for a child process.
Type	Event: This message reports an event, not an error
Severity	info

PWC_LOCKFILE_NOT_LOCKED

System Log Message	PWC_LOCKFILE_NOT_LOCKED: PID lock file not locked: *lock-file-path*
Description	The Process Watch Controller process (pwc) found that the indicated PID file for a child process was unlocked when it should be locked.
Type	Event: This message reports an event, not an error
Severity	info

PWC_NO_PROCESS

System Log Message	PWC_NO_PROCESS: No process specified
Description	The child process for the Process Watch Controller process (pwc) to monitor must be specified when the pwc process starts. No child process was specified.
Type	Error: An error occurred
Severity	error

PWC_PROCESS_EXIT

System Log Message	PWC_PROCESS_EXIT: pwc process *pwc-process-id* child *child-process-id* exited with status *child-exit-status*
Description	The child process of the Process Watch Controller process (pwc) exited with the specified exit status.
Type	Event: This message reports an event, not an error
Severity	notice

PWC_PROCESS_FORCED_HOLD

System Log Message	PWC_PROCESS_FORCED_HOLD: Process *pwc-process-id* forcing hold down of child *child-process-id* until signal
Description	The Process Watch Controller process (pwc) received a signal directing it to hold down the indicated child process forcibly on exit due to a signal.
Type	Event: This message reports an event, not an error
Severity	notice

PWC_PROCESS_HOLD

System Log Message	PWC_PROCESS_HOLD: Process *pwc-process-id* holding down child *child-process-id* until signal
Description	The Process Watch Controller process (pwc) held down the indicated child process after the child exited, preventing the child from restarting.
Type	Event: This message reports an event, not an error
Severity	notice

PWC_PROCESS_HOLD_SKIPPED

System Log Message	PWC_PROCESS_HOLD_SKIPPED: Process *pwc-process-id* will not down child *child-process-id* because of fast-kill option
Description	The 'fast-kill' option was included on the command line for the Process Watch Controller process (pwc), so the pwc process will not hold down its child process when the child exits.
Type	Event: This message reports an event, not an error
Severity	info

PWC_PROCESS_OPEN

System Log Message	PWC_PROCESS_OPEN: Failed to create child process with pidpopen: *error* (*error-number*)
Description	The Process Watch Controller process (pwc) exited because it could not create a child process.
Type	Error: An error occurred
Severity	emergency

PWC_PROCESS_TIMED_HOLD

System Log Message	PWC_PROCESS_TIMED_HOLD: Process *pwc-process-id* holding down child *child-process-id* for *hold-time* seconds or until signal
Description	The Process Watch Controller process (pwc) held down the indicated exiting child process temporarily, preventing it from restarting.
Type	Event: This message reports an event, not an error
Severity	notice

PWC_PROCESS_TIMEOUT

System Log Message	PWC_PROCESS_TIMEOUT: Child timed out while *process-state*
Description	The child process monitored by the Process Watch Controller process (pwc) timed out and will be terminated.
Type	Event: This message reports an event, not an error
Severity	notice

PWC_SIGNAL_INIT

System Log Message	PWC_SIGNAL_INIT: signal(*signal-name*) failed: *error* (*error-number*)
Description	The Process Watch Controller process (pwc) failed to initialize the indicated signal handler.
Type	Error: An error occurred
Severity	emergency

PWC_SOCKET_CONNECT

System Log Message PWC_SOCKET_CONNECT:
Unable to connect socket to *destination* : *error*

Description The Process Watch Controller process (pwc) could not connect to a Routing Engine process.

Type Error: An error occurred

Severity error

PWC_SOCKET_CREATE

System Log Message PWC_SOCKET_CREATE:
Failed to create socket: *error*

Description The Process Watch Controller process (pwc) could not create a socket for communication with a Routing Engine process.

Type Error: An error occurred

Severity error

PWC_SOCKET_OPTION

System Log Message PWC_SOCKET_OPTION:
Unable to set socket option *socket-option* : *error*

Description The Process Watch Controller process (pwc) could not set the indicated option on a socket for communication with a Routing Engine process, so socket initialization failed.

Type Error: An error occurred

Severity error

PWC_STDOUT_WRITE

System Log Message PWC_STDOUT_WRITE:
Write to stdout failed: *error* (*error-number*)

Description The Process Watch Controller process (pwc) could not write to standard output but continued to run.

Type Error: An error occurred

Severity error

PWC_SYSTEM_CALL

System Log Message	PWC_SYSTEM_CALL: *function-call*: *error* (*error-number*)
Description	The indicated system call failed with the indicated error.
Type	Error: An error occurred
Severity	error

PWC_UNKNOWN_KILL_OPTION

System Log Message	PWC_UNKNOWN_KILL_OPTION: Unknown kill option [*invalid-option*]
Description	The indicated kill option included on the command line for the Process Watch Controller process (pwc) was invalid.
Type	Error: An error occurred
Severity	error